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File: USPT

Mar 20, 2001

COUNTRY

US-PAT-NO: 6205456

DOCUMENT-IDENTIFIER: US 6205456 B1

TITLE: Summarization apparatus and method

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE

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NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Fujitsu Limited Kawasaki JΡ 03

APPL-NO: 09/006201 [PALM] DATE FILED: January 13, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JΡ 9-006777 January 17, 1997

INT-CL: [07] $\underline{G06}$ \underline{F} $\underline{17/30}$, $\underline{G06}$ \underline{F} $\underline{15/00}$

US-CL-ISSUED: 707/531; 707/3 US-CL-CURRENT: <u>715/531; 707/3</u>

FIELD-OF-SEARCH: 707/9, 707/1-6, 707/100-104, 707/500, 707/526, 707/515, 707/517, 707/530,

345/418, 345/326, 345/334, 345/340, 345/352, 345/507

PRIOR-ART-DISCLOSED:

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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	5918240	June 1999	Kupiec et al.	707/531
	5924108	July 1999	Fein et al.	707/531
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707/3

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FOREIGN-PAT-NO

PUBN-DATE

COUNTRY

CLASS

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December 1994 August 1996

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ART-UNIT: 212

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ABSTRACT:

A document summarization apparatus or method summarizes an electronic document written in a natural language, and generates an appropriate summary depending on user's focus and user's knowledge. The document summarization apparatus according to the present invention includes, for example, a focused information relevant portion extraction unit, a summary readability improvement unit, and a summary generation unit. The focused information relevant portion extraction unit extracts a portion related to two types of focused information in a document to be summarized based on the two types of focused information, that is, user-focused information as information focused by a user who uses a summary, and author-focused information as information emphasized by an author of the document to be summarized. In the document to be summarized, the summary readability improvement unit distinguishes user known information already known to a user, and information known through an access log regarded as already known to a user based on a document previously presented to the user when a summary is generated, from other information than these two types of information, and selects an important portion in the document to be summarized. The summary generation unit generates the summary of the document to be summarized based on the selection result of the summary readability improvement unit. Thus, a summary can be generated with both user-focused information and author-focused information can be included depending on the knowledge level of a user.

29 Claims, 33 Drawing figures

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